



INVESTIGATOR'S ANNUAL REPORT

United States Department of the Interior
National Park Service

All or some of the information you provide may become available to the public.

OMB # (1024-0236)
Exp. Date (11/30/2010)
Form No. (10-226)

Reporting Year: 2010	Park: Shenandoah NP	Select the type of permit this report addresses: Scientific Study	
Name of principal investigator or responsible official: Jeffrey Rose		Office Phone: 614-292-3296	
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Additional investigators or key field assistants (first name, last name, office phone, office email) Name: John Freudenstein Phone: 614-292-3296 Email: freudenstein.1@osu.edu			
Project Title (maximum 300 characters): A monograph of of <i>Monotropis odorata</i> Schwein. (Ericaceae)			
Park-assigned Study or Activity #: SHEN-00379	Park-assigned Permit #: SHEN-2010-SCI-0012	Permit Start Date: Mar 01, 2010	Permit Expiration Date: Dec 30, 2011
Scientific Study Starting Date: Mar 01, 2010		Estimated Scientific Study Ending Date: Dec 30, 2011	
For either a Scientific Study or a Science Education Activity, the status is: Continuing		For a Scientific Study that is completed, please check each of the following that applies: <input type="checkbox"/> A final report has been provided to the park or will be provided to the park within the next two years <input type="checkbox"/> Copies of field notes, data files, photos, or other study records, as agreed, have been provided to the park <input type="checkbox"/> All collected and retained specimens have been cataloged into the NPS catalog system and NPS has processed loan agreements as needed	
Activity Type: Research			
Subject/Discipline: Plant Communities (Vegetation)			

Purpose of Scientific Study or Science Education Activity during the reporting year (maximum 4000 characters):

In the past, three species have been described but only one is currently recognized. Very little work has been done on this species in the last 25 years. It seems probable that there are at least two distinct species, based on differences in habit, flowering time, and habitat. In addition, specialization on a particular fungal symbiont may be a mode of speciation in this group of plants.

Findings and status of Scientific Study or accomplishments of Science Education Activity during the reporting year (maximum 4000 characters):

No activity was conducted this report year

For Scientific Studies (not Science Education Activities), were any specimens collected and removed from the park but not destroyed during analysis?

No

Funding specifically used in this park this reporting year that was provided by NPS (enter dollar amount):

\$0

Funding specifically used in this park this reporting year that was provided by all other sources (enter dollar amount):

\$0

List any other U.S. Government Agencies supporting this study or activity and the funding each provided this reporting year:

Paperwork Reduction Act Statement: A federal agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. Public reporting for this collection of information is estimated to average 1.625 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the forms. Direct comments regarding this burden estimate or any aspect of this form to Dr. John G. Dennis, Natural Resources (3127 MIB), National Park Service, 1849 C Street, N.W., Washington, DC 20240.